

DESCRIPTION

PMI MODEL P12T-0R5G18G-80-T-SFF IS A HIGH SPEED, SINGLE POLE, TWELVE THROW, ABSORPTIVE SWITCH OPERATING OVER THE 0.5 TO 18.0 GHz FREQUENCY RANGE. THIS MODEL IS CAPABLE OF SWITCHING WITHIN 100 ns WHILE MAINTAINING 80 dB OF ISOLATION. THE HOUSING MEASURES 6.00" x 2.00" x 0.40" AND IS OUTFITTED WITH SMA FEMALE CONNECTORS.

SPECIFICATIONS

- FREQUENCY RANGE: ----- 0.5 TO 18.0 GHz
- ISOLATION: ----- 80 dB MINIMUM
- INSERTION LOSS: ----- 5.5 dB MAXIMUM
- VSWR (IN/OUT): ----- 2.0:1 MAXIMUM
- OPERATING INPUT POWER: --- +20 dBm CW
- SWITCHING SPEED: ----- 100 ns MAXIMUM
- DC VOLTAGE AND CURRENT: - +5 VDC @ 600 mA
-5 VDC @ 100 mA
- CONTROL SIGNAL: ----- 4-BIT DECODED TTL (SEE TABLE)
- CONNECTORS: ----- RF: SMA FEMALE
CONTROL: SOLDER PINS
- SIZE: ----- 6.00" x 2.00" x 0.40"
152.4 mm x 50.8 mm x 10.16 mm
EXCLUDING CONNECTORS
- FINISH: ----- PAINTED GRAY

LOGIC TABLE				
E4	E3	E2	E1	CONNECTOR
0	0	0	0	J2 ON
0	0	0	1	J3 ON
0	0	1	0	J4 ON
0	0	1	1	J5 ON
0	1	0	0	J6 ON
0	1	0	1	J7 ON
0	1	1	0	J8 ON
0	1	1	1	J9 ON
1	0	0	0	J10 ON
1	0	0	1	J11 ON
1	0	1	0	J12 ON
1	0	1	1	J13 ON

ENVIRONMENTAL RATINGS

- TEMPERATURE: ----- -54 °C TO +95 °C (OPERATING)
-65 °C TO +125 °C (STORAGE)
- HUMIDITY: ----- MIL-STD-202, METHOD 103B COND. B
- SHOCK: ----- MIL-STD-202, METHOD 213B COND. B
- VIBRATION: ----- MIL-STD-202, METHOD 204D COND. B
- ALTITUDE: ----- MIL-STD-202, METHOD 105C COND. B
- TEMPERATURE CYCLE: ----- MIL-STD-202, METHOD 107D COND. A

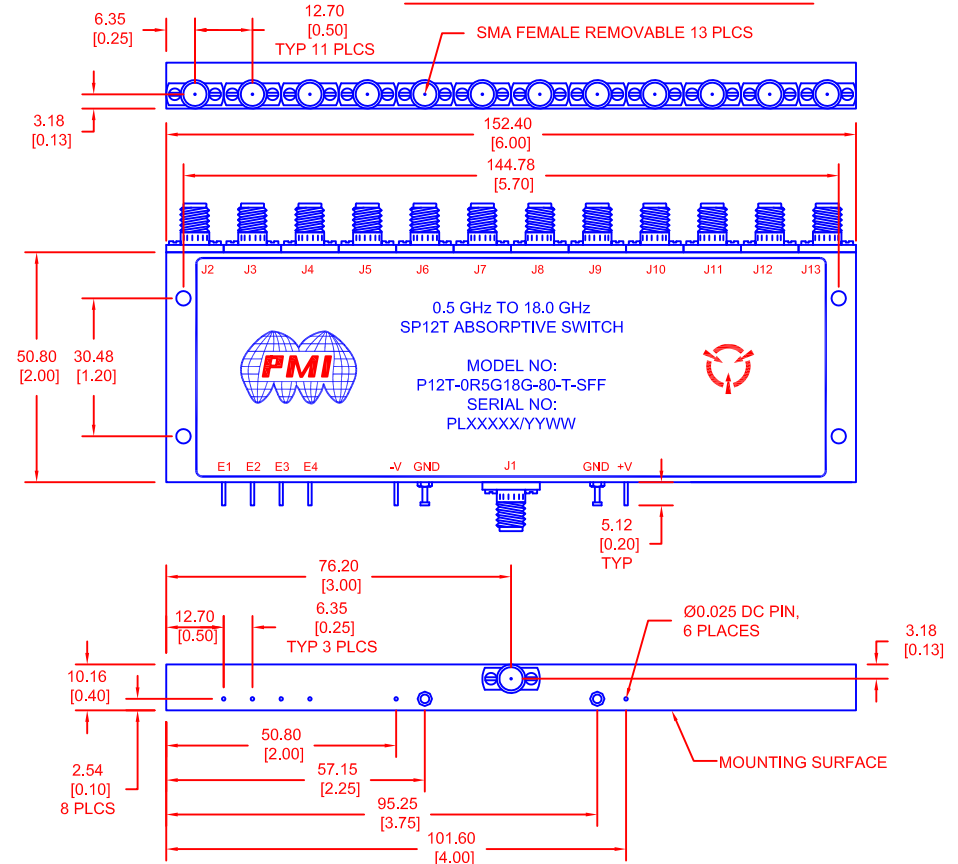
NOTE: SPECIFICATIONS WILL VARY OVER OPERATING TEMPERATURE

NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

PMI CONFIDENTIAL AND PROPRIETARY

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	-	PRELIMINARY	2/1/23	

MECHANICAL OUTLINE



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ISO 9001 CERTIFIED



APPROVALS		DATE	TITLE		
		2/1/23	PRODUCT FEATURE P12T-0R5G18G-80-T-SFF		
DRAWN <i>AG</i>			0.5 GHz to 18.0 GHz SP12T Absorptive Pin Diode Switch		
CHECKED			SIZE A	FSCM NO. 05XQ0	DWG NO. PRELIMINARY
ISSUED			SCALE N:S	SHEET 1 OF 1	

ALL DIMENSIONS
ARE IN mm [INCH]
TOLERANCES:
X.XX ±0.508 [0.020]
X.XXX ±0.254 [0.010]